

CIRCULAR No. 3.
STATE BOARD OF FORESTRY.
G. B. LULL, State Forester.

UNIVERSITY OF CALIFORNIA
AT LOS ANGELES

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AUGUST, 1908.

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1908.

STATE BOARD OF FORESTRY.

JAMES N. GILLETT.....Governor.

CHAS. F. CURRY.....Secretary of State.

U. S. WEBB.....Attorney-General.

G. B. LULL.....State Forester.

A BIBLIOGRAPHY OF FORESTRY IN CALIFORNIA.

INTRODUCTION.

This bibliography of forestry in California attempts to bring together such books, official reports and articles in periodicals as may appear serviceable to the forester or the non-professional student. It does not include the exceedingly large amount of popular writing designed to further the adoption of protective measures, nor descriptive matter of primarily a literary character. Even in its chosen field, it does not pretend to be exhaustive. Important data and discussions, especially in dendrology and forest description, will be found scattered through innumerable botanical, geological, and other scientific books and periodicals. To gather them would involve an amount of labor quite disproportionate to the harvest thus to be collected.

There are a number of periodicals quite indispensable to the student of California forestry, which have not been analyzed because they are provided with such excellent indices, that their California articles may be readily found. Among these are:

Garden and Forest.

The Forestry Quarterly.

Forestry and Irrigation. (This periodical was in its earlier volumes known as *The Forester*. The publishers have recently announced the contemplated change of name to *Conservation*.)

Water and Forest.

The trade papers dealing with lumbering and other forest industries will, of course, not be neglected by the student. The most important of these are *The American Lumberman* (formerly *Northwestern Lumberman*), and *Pacific Coast Wood and Iron*.

In the office of the State Forester at Sacramento numerous manuscript notes on California forestry are being collected. In the State Library at Sacramento newspaper clippings on this subject are preserved.

GENERAL PUBLICATIONS.

LAKE BIGLER FORESTRY COMMISSION. Report to Governor George Stoneman.

8°, 15 pp. Sacramento, State Printing Office, 1884.

Recommends, among other things, the appointment of a permanent forestry commission.

STATE BOARD OF FORESTRY, California. First Biennial Report, for the years 1885-86, to Governor George Stoneman.

8°, 238 pp., 6 folding maps. Sacramento, State Printer, 1886.

— Second Biennial Report, for the years 1885-86, to Governor R. W. Waterman.

8°, 182 pp., 6 folding maps, 24 pl. Sacramento, State Printer, 1888.

— Third Biennial Report, for the years 1889-90, to Governor R. W. Waterman.

8°, 212 pp., 31 pl. Sacramento, State Printing Office, 1890.

— Fourth Biennial Report, for the years 1891-92, to Governor H. H. Markham.

8°, 81 pp., 9 pl. Sacramento, State Printer, 1892.

NOTE.—The reports of the first forestry board contain, in addition to the usual administrative data and discussions on forestry propaganda, numerous special articles which are listed below under their appropriate heads. These reports are now out of print and becoming quite scarce. A set is preserved in the State Library.

STATE FORESTER, Report of the, for the period July 12, 1905, to November 30, 1906.

8°, 39 pp. Sacramento, State Printing Office, 1906.

This is the first report of the new Forestry Board.

DUDLEY, William R. Forestry Notes.

A series of news and comment on matters relating to forestry, in the Sierra Club Bulletin.

KINNEY, Abbot. Forest and Water.

8°, pp. 250 + v, 53 ills. Los Angeles, 1900.

LYON, W. S. Report on the Chico Experiment Station.

In: Third Biennial Report State Board of Forestry, pp. 48-62. 1890.

— Report on the condition of the experimental station at Santa Monica.

In: Third Biennial Report of State Board of Forestry, pp. 17-24. 1890.

NOTE.—The forestry stations at Santa Monica and Chico were at first under the supervision of the old State Board of Forestry, and reports on their operations are inserted in the four biennial reports of that body. The act abolishing that board (Statutes 1893, p. 229) transferred them to the University of California, and further reports were issued as university publications.

FOREST DESCRIPTION.

BRANDEGEE, T. S. The vegetation of "burns."

In: Zoe, 2: 118-122.

DAVIDSON, H. S. Description of counties: Siskiyou, Modoc, Lassen, Plumas, Shasta, Butte, Tehama, Placer, Sierra, Nevada, Amador, El Dorado.

In: Second Biennial Report California State Board of Forestry, pp. 160-173, 6 maps. 1888.

— The Sierra forests as producers of lumber.

In: Second Biennial Report California State Board of Forestry, pp. 144-153. 1888.

DUDLEY, William R. Zonal distribution of trees and shrubs in the Southern Sierra.

Sierra Club Publications, 3: 298-312, May, 1900, 6 text figs.

— Forest reservations: With a report on the Sierra Reservation, California.

In: Publications of the Sierra Club, 1: 254-267.

HANSEN, George. The hillside farmer and the forest.

In: Sierra Club Publications, 5: 33-43, January, 1904. 2 pl.

Graphic account of typical history of foothill settlement, under bad forest management.

— The reafforesting of the Sierra Nevada.

Sierra Club Publications, 3: 224-229, May, 1900. 2 pl.

KINNEY, Abbot. Report on the forests of the Counties of Los Angeles, San Bernardino, and San Diego, California.

In: First Biennial Report California State Board of Forestry, pp. 25-27, 2 maps.

LEIBERG, John B. Forest conditions in the Northern Sierra Nevada, California.

U. S. Geological Survey, professional paper 8, series H, Forestry, 5, p. 194, 12 maps, quarto. Washington, Government Printing Office, 1902.

LEIBERG, John B. San Jacinto Reserve. (Preliminary report.)

In: U. S. Geological Survey, 19th Annual Report, 1897-98. Part V, Forest Reserves, pp. 351-356, 2 pl., large 8°. Washington, Government Printing Office, 1899.

LEIBERG, J. B. San Bernardino Forest Reserve. (Preliminary report.)

In: U. S. Geological Survey, 19th Annual Report, 1897-98. Part V, Forest Reserves, pp. 359-364, 1 pl., large 8°. Washington, Government Printing Office, 1899.

— San Gabriel Forest Reserve. (Preliminary report.)

In: U. S. Geological Survey, 19th Annual Report, 1897-98. Part V, Forest Reserves, pp. 367-370, 2 pl., large 8°. Washington, Government Printing Office, 1899.

LEIBERG, John B. The San Jacinto Forest Reserve.

In: U. S. Geological Survey, 20th Annual Report, 1898-99. Part V, Forest Reserves, pp. 455-478, 6 pl. (2 maps), large 8°. Washington, Government Printing Office, 1900.

— The San Bernardino Forest Reserve.

In: U. S. Geological Survey, 20th Annual Report, 1898-99. Part V, Forest Reserves, pp. 429-454, 7 pl. (2 maps), large 8°. Washington, Government Printing Office, 1900.

— The San Gabriel Forest Reserve.

In: U. S. Geological Survey, 20th Annual Report, 1898-99. Part V, Forest Reserves, pp. 411-428, 4 pl. (one is a map), large 8°. Washington, Government Printing Office, 1900.

MERRIAM, C. Hart. Results of a biological survey of Mount Shasta, California.

U. S. Dep. Agric.—Division of Biolog. Survey. No. Am. Fauna, No. 16. 8°, 179 pp., 5 pl., 46 figs. in text. Washington, Government Printing Office, 1899.

Primarily zoological, but has many notes on distribution of trees.

MUIR, John. The forests.

In: Muir, The mountains of California, chap. VIII.

ORCUTT, C. R. Report on the trees and shrubs of San Diego County, California.

In: First Biennial Report California State Board of Forestry, pp. 47-51. 1886.

PARISH, S. B. Distribution of Southern California trees.

In: Zoe, 3: 332-353.

VISCHER, Hubert. Report of the engineer of the State Board of Forestry (on forests of the northern coast ranges).

I. Introduction.

II. The Redwood.

III. Trees of the Coast Range, other than redwood.

IV. Causes and results of forest destruction.

In: First Biennial Report California State Board of Forestry, pp. 125-222. Two maps.

WAGONER, Luther. Report on the forests of the counties of Amador, Calaveras, Tuolumne, and Mariposa, California.

In: First Biennial Report California State Board of Forestry, pp. 41-44. One map. 1886.

NOTE.—On the chaparral, and comparison with similar formations in other parts of the world, see

Schimper, A. F. W. Plant Geography, pp. 507-541.

DENDROLOGY.

ALLEN, Edward T. The Western hemlock.

Forest Service, U. S. Department of Agriculture, Bull. 33. 8°, 35 pp., 12 pl. Washington, Government Printing Office, 1902.

Treats of the conditions of growth of the species in Washington and Oregon, but the tree occurs also in California.

BRANDEGEE, Katharine. *Rhamnus Californica* and its allies.

In: Zoe, 1: 240-244.

— Studies in *Ceanothus*.

In: Proceedings California Academy of Sciences, new series, vol. 4, pp. 173-222.

Strictly botanical, but inserted on account of the importance of this genus for California forestry.

BUREAU OF FORESTRY. U. S. Department of Agriculture. The Redwood.

Bull. 38. 8°, 40 pp., frontispiece, 12 pl., 4 text figs., 2 diagr. Washington, Government Printing Office, 1903.

Contains the following articles: *Fisher*, R. T., A study of the redwood; *Shrenk*, H. V., The brown rot disease of redwood; *Hopkins*, A. D., Insect enemies of the redwood.

COOPER, Albert W. Sugar pine and western yellow pine in California.

Forest Service, U. S. Dept. Agric., Bull. 69. "In coöperation with the State of California." 8°, 42 pp., 4 pl. Washington, Government Printing Office, 1906.

EASTWOOD, Alice. Trees and shrubs seen en route (in Trinity County).

In: Publications of the Sierra Club, 4: 53-58.

— A handbook of the trees of California.

Occasional papers of the California Academy of Sciences, IX. Issued July 8, 1905. 8°, 86 pp., 57 pl.

Also published separately.

EISEN, Gustav. Forms of trees as determined by climatic influences.

In: Zoe, 3: 1-11.

FISHER, Richard T. A study of the Redwood.

In: The Redwood. Bull. 38, Bureau of Forestry. Washington, D. C., 1903.

FOREST SERVICE, U. S. Dept. Agriculture. Port Oxford Cedar.

Silvical leaflet 2. Issued Sept. 5, 1907. 8°, 3 p.

— Lowland Fir.

Silvical leaflet 5. Issued Oct. 7, 1907. 8°, 3 p.

— White Fir.

Silvical leaflet 4. Issued Oct. 7, 1907. 8°, 4 p.

— Sitka Spruce.

Silvical leaflet 6. Issued Oct. 7, 1907. 8°, 4 p.

— Red Fir.

Silvical leaflet 8. Issued Oct. 7, 1907. 8°, 3 p.

FOREST SERVICE, U. S. Dept. Agriculture. Incense Cedar.

Silvical leaflet 9. Issued Oct. 7, 1907. 8°, 4 p.

— Bigeone Spruce.

Silvical leaflet 10. Issued Oct. 7, 1907. 8°, 3 p.

— Giant Arborvitæ.

Silvical leaflet 11. Issued Oct. 7, 1907. 8°, 3 p.

— Western White Pine.

Silvical leaflet 13. Issued Oct. 7, 1907. 8°, 4 p.

KELLOGG, A. Forest Trees of California.

In appendix, Second Report of the State Mineralogist, pp. 1-116. 1882.

LEMMON, J. G. Handbook of West American conebearers.

Fourth (pocket) edition, July, 1900. With 12-page appendix of changes and new matter.

116 pp., 16°, 17 pl. No imprint.

— Report of the Botanist of the State Board of Forestry.

In: Third Biennial Report State Board of Forestry, pp. 73-212. 1890.

This paper has been separately issued under the title of "Conebearers of California." See preceding title, which is revised edition of the present paper.

— Pines of the Pacific slope.

In: Second Bienn. Rept. Cal. State Board of Forestry, pp. 69-140. 24 pl.

LYON, W. S. The cluster pine in California—*Pinus pinaster*—cluster pine, maritime pine.

In: Third Biennial Rept. State Board of Forestry, pp. 32-35. 1890.

TRELEASE, Wm. Synoptical list of North American species of *Ceanothus*.

In: Calif. Acad. of Sciences, Proc., new series, vol. 1, pp. 106-118.

VISCHER, Hubert. The Sugar Pine; its peculiar development in Del Norte County.

In: First Report Cal. State Board of Forestry, pp. 216-217. 1886.

ZIEGLER, E. A. Forest tables—Western Yellow Pine.

Forest Service, U. S. Dept. Agriculture, Circular 127. Issued Jan. 30, 1908. 8°, 23 p.

SEQUOIAS.

DEVRIES, Hugo. In het land der redwoods.

In: Naar Californië, pp. 283-292.

GRAY, Asa. Sequoia and its history.

In: American Naturalist, 6: 577.

MUIR, John. Sequoia Forests of California.

In: Harper's Monthly, 57: 813.

FORESTRY, Division of, U. S. Department of Agriculture. Bull. 28. A short account of the big trees of California.

Washington, Government Printing Office, 1900.

DIVISION OF FORESTRY, U. S. Department of Agriculture. Report on the big trees of California.

30 pp., 8°, 15 pl., 2 maps. Washington, Government Printing Office, 1900.
(This is substantially identical with the preceding.)

KELLY, Allen. Destruction of Sequoia groves.

In: Fourth Biennial Report California State Board of Forestry, pp. 22-23. 1892.

Contains some interesting historical data.

PRICE, W. W. Description of a new grove of *Sequoia gigantea*.

In: Publications of the Sierra Club, 1: 17-22. (Placer County grove.)

NEEDHAM, James C. Report on the proposal to condemn private holdings.

House Report 461, 58th Congress, 2d session. In Miscellaneous House Reports, vol. 2. (Serial 4578.)

ANON. Account of sale of Calaveras grove to R. P. Whiteside.

In: Sierra Club Bull., 3: 182. May, 1900.

PRESIDENT OF THE UNITED STATES. Message accompanying petition for preservation of Calaveras grove.

Senate Document, 93, 58th Congress, 2d session. Miscellaneous Senate Documents, vol. 3. (Serial 4588.)

PLUMMER, Fred G. Report on Calaveras groves of Big Trees, California.

House Report No. 1426, 60th Congress, 1st session, to accompany Senate Bill 1574.

Contains tables showing number and location of Big Trees, timber content, value, and similar information.

SMITH, S. C. Report on the purchase of the Calaveras Bigtree Grove.

House Report 1426, 60th Congress, 1st session. 1908.

STATE BOARD OF FORESTRY. California Redwood Park, Santa Cruz County.

Large 8°, 3 pp. text, printed on one side of paper, 6 pl. Sacramento State Printing Office. Handsome descriptive pamphlet.

ANON. Note on movement for purchase of Big Basin.

Sierra Club Bull., 3: 187. May, 1900.

CLARKE, F. L. The Big Basin.

Sierra Club Bulletin, 3: 218-223. May, 1900. Map, 2 pl.

NOTE.—For description of work done in Redwood Park see Report of State Forester, 1906, p. 34. For attacks made on management on account of cutting, etc., daily papers in spring of 1908, and file of newspaper clippings in State Library.

MUIR WOODS. Official correspondence relating to the gift of.

In: Sierra Club Publications, 6: 287-289.

SILVICULTURE.

ANON. Explanatory Catalogue of a few forest trees and shrubs for culture.

In: First Biennial Report California State Board of Forestry, pp. 59-124. 1886.

DOUGLAS, THOS. H. Report of the former head forester (on forest planting, especially eucalyptus).

In: Second Biennial Report California State Board of Forestry, pp. 39-41. 1888.

LYON, W. S. Wattles, and wattle planting in California.

In: Third Biennial Report State Board of Forestry, pp. 36-47. 1890.

LYON, Wm. S. On close or thin planting.

In: Fourth Biennial Report California State Board of Forestry, pp. 38-41. 1892.

Contains numerous references to California conditions and data.

— Trees suitable for alkali lands.

In: Fourth Biennial Report California State Board of Forestry, pp. 33-38. 1892.

— Suggestions for forest planting in California.

In: Second Biennial Report California State Board of Forestry, pp. 31-36. 1888.

SCUPHAM, J. R. Tree culture experiments made by the Southern Pacific Railroad Company.

In: First Report California State Board of Forestry, pp. 227-229. 1886.

THOMAS, Milton. Forest trees for profit.

In: First Biennial Report California State Board of Forestry, pp. 55-56. 1886.

NOTE.—Reports of the Chico and Santa Monica forestry stations, being parts of the biennial reports of the Agricultural Experiment Station of the University of California, contain numerous silvicultural data besides those specifically listed here, especially concerning eucalypts and other exotic species.

U. S. FOREST SERVICE. Work in Forest Extension in California.

In: Forest Service Circular 36, p. 10.

FLINTHAM, S. J. Planting plan for the Bixby ranch, Orange County.

Forest Service Field Programme, November, 1906, p. 20.

STERLING, E. A. The reforestation of Southern California.

Out West, 27:21-31.

EUCALYPTUS.

ANON. Santa Ana's municipal Eucalyptus grove.

In: Pacific Municipalities, 18:112.

COOPER, Ellwood. Forest culture and Australian gum trees.

12°, pp. 204. San Francisco, 1876.

DAVY, J. Burt. Article on Eucalyptus in: Bailey's Cyclopedia of American horticulture.

FOREST SERVICE, U. S. Department of Agriculture. Eucalypts.

Circular 59 (revised), issued October 3, 1907. Forest Planting Leaflet. 8°, 13 pp.

KINNEY, Abbot. Eucalyptus.

12°, Los Angeles, 1885.

LYON, W. S. Some notes on the genus Eucalyptus.

In: Third Biennial Report State Board of Forestry, pp. 25-31. 1890.

— A report on the growth of some species of Eucalyptus in Southern California. Forestry Bulletin No. 6.

In: Third Biennial Report State Board of Forestry, pp. 63-66. 1890.

McCLATCHIE, Alfred James, M. A. Eucalypts cultivated in the United States.

U. S. Dept. Agriculture. Bureau of Forestry, Bulletin 35, 8°, 106 pp., 91 pl. Washington. Government Printing Office, 1902.

SHINN, Chas. H. Report on Santa Monica Forestry Station.

In: Partial report of work of the agricultural experiment stations of the University of California. 1895-97, pp. 418-426. Also 1897-99, pp. 338, 346, 349.

STATE BOARD OF FORESTRY. A handbook for Eucalyptus planters.

Circular 2. (The pamphlet relating to the Redwood Park counts as circular 1, but is not so numbered.) 8°, 48 pp., 10 pl., mostly set in the text, and one map folded in. Sacramento, State Printing Office, 1907.

Has numerous volume and yield tables.

NOTE.—Numerous silvicultural notes relating to Eucalyptus are found in agricultural and horticultural publications, such as the Reports of the State Agricultural Society, the State Commission of Horticulture, the proceedings of the California Fruit-growers' Association, and others. See also later reports of the Chico and Santa Monica stations, as above.

FOREST PROTECTION.

COLLINS, Edw. L. Report of the special agent.

In: Second Biennial Report California State Board of Forestry, pp. 45-50. 1888. (Deals with trespasses.)

DOANE, R. W. Insect enemies of the Monterey pines.

In: Overland Monthly, 51: 361-366, 1 pl., 5 text, ill. April, 1908.

HOPKINS, A. D. Insect enemies of the redwood.

In: The Redwood. Bull. 38, Bureau of Forestry. Washington, D. C., 1903.

KELLOGG, V. L., and JACK, F. J. The California Phryganidian (Phryganidia Californica, Pack.).

In: California Academy of Sciences Proceedings, 2d series, vol. 5, pp. 562-570.

SCHRENK, Hermann von. The brown rot disease of the Redwood.

In: The Redwood. Bull. 38, Bureau of Forestry. Washington, D. C., 1903.

FIRES.

COLLINS, Edw. L. Report of the special agent.

In: Second Biennial Report California State Board of Forestry, pp. 45-50. 1888.

COOPER, A. W., and KELLETER, P. D. The control of forest fires at McCloud, California.

U. S. Department of Agriculture. Forest Service Circular 79, 16 pp., 1 chart. Washington, Government Printing Office, 1907.

DAVIDSON, H. S. Forest fires.

In: Second Biennial Report California State Board of Forestry. pp. 153-157. 1888.

KELLY, Allen. Observations on sheepherders causing fires.

In: Fourth Biennial Report California State Board of Forestry, pp. 14-17. 1892.

— Forest fires.

In: Fourth Biennial Report California State Board of Forestry, pp. 23-26. 1892.

NOTE.—For statistics of causes, convictions, etc., see Report of State Forester, 1906, p. 27.

For discussion of fires in the Coast Range, see also First Biennial Report State Board of Forestry, pp. 197-202. 1886.

STATE BOARD OF EXAMINERS. Report for 1905, page 23.

On the protective system of the Diamond Match Company.

STERLING, E. A. The attitude of lumbermen toward forest fires.

Reprint from Yearbook of Dept. Agric., 1904, pp. 133-140, 3 pl., no imprint. Many of the facts cited, as well as the illustrations, are from California.

FOREST UTILIZATION.

DAVY, Joseph Burr. Stock ranges of Northwestern California.

Bureau of Plant Industries, U. S. Dept. Agriculture, Bulletin 12, 8°, 81 pp., 8 pl., 3 maps, 4 text figs. Washington, Government Printing Office, 1902.

FOREST SERVICE, U. S. Department of Agriculture. Grazing on the public lands.

Bull. 62, 8°, 67 pp. Map of grazing lands and diagram of answers in pocket.

Published also as Senate Doc. 189, 58th Cong., 3d session. Washington, Government Printing Office, 1905.

HESSE, Prof. Statement of investigations concerning Pacific Coast woods.

In: Report of the Regents of the University of California, 1875, pp. 66-68.

MACKIE, W. W. The value of oak leaves for forage.

University of California publications. Agricultural Experiment Station, Bulletin 150, 8°, 21 pp., 11 ill. in text. Berkeley, April, 1908.

In addition to subject proper, has ecological and silvicultural notes on six species of oak in northwest part of State.

ROTH, Filibert. Grazing in the forest reserves.

Reprint from Yearbook of Dept. of Agriculture for 1901. 8°, pp. 333-348, 8 pl. Some of the data are taken from California.

For statistics on grazing in forest reserves and comment, see Dudley, W. R., in Forestry Notes, Sierra Club Bulletin, 5: 146, 1904.

See also below, "National Forests."

NOTE.—The following statistical publications do not refer specifically to California, but contain the most accessible material relating to this State:

Circulars of the U. S. Forest Service relating to forest products of the U. S. (annual), sawmill statistics, mining timber, etc.

Decennial and quinquennial reports of the U. S. Census Bureau on manufactures.

See also files of lumber trade papers, especially Pacific Coast Wood and Iron.

FOREST LAW AND POLICY.

NOTE.—A compilation of California statutes relating to forestry, in force in 1904, may be found in Bull 57, Bureau of Forestry, Forest Laws of the United States. Statutes prior to that time, but no longer in force, must be sought in the official publications of statutes passed at each session of the Legislature, and in the successive editions of the codes.

STATE BOARD OF FORESTRY. Forest laws of California and rules for the prevention of forest fires.

16°, 23 pp. Sacramento, State Printing Office, 1906.

— Forest laws of California and rules for the prevention of forest fires.

16°, 22 pp. Sacramento, State Printing Office, 1906.

A new edition of preceding publication, made necessary by changes in the law.

BILLS RELATING TO FORESTRY, INTRODUCED IN THE LEGISLATURE OF THE STATE OF CALIFORNIA.

NOTE.—The bills introduced in the Legislature have been preserved for the last ten or twelve sessions in the State Library at Sacramento, and probably in no other place.

The bills introduced in the session of 1903 were as follows:

Senate Bill 20, Ralston: To establish school of forestry in University of California.

Sen. Bill 28, Wolfe: To appoint a commission of waters and forests.

Assembly Bill 74, Johnson: To withdraw from sale tax lands, etc.

Ass. Bill 260, Walsh: To establish school of forestry.

In 1905:

Sen. Bill 33, Wolfe: Providing for investigations in coöperation with United States.

Sen. Bill 342, Ralston: To devote certain claims growing out of civil war to forestry.

Sen. Bill 638, Anderson: To establish a State Board of Forestry.

Sen. Bill 579, Ralston: To establish a school of forestry.

Ass. Bill 80, Estudillo: To provide for investigations jointly with United States.

Ass. Bill 358, Johnstone: To provide for the protection and management of forests.

Ass. Bill 439, McGowan: To devote certain civil war claims to promote forestry.

Ass. Bill 514, Drew: Prescribing treble damages for negligent setting of fires.

Ass. Bill 623, Walsh: Providing for a school of forestry.

Ass. Bill 712, Johnstone: Establishing a state forestry policy.

Ass. Bill 1156, Stanton: Permitting counties to spend money for forestry purposes.

Assembly Joint Resolution 10, Jones (Tuolumne): Relating to grazing of cattle on forest reserves.

In 1907:

Sen. Bill 63, Wolfe: To establish school of forestry.

Sen. Bill 766, Irish: To dispose of moneys received from U. S. Forest Reserves.

BILLS RELATING TO FORESTRY, INTRODUCED IN THE LEGISLATURE OF THE
STATE OF CALIFORNIA—*Continued.*

In 1907:

Sen. Bill 900, Willis: Providing for fire lanes, etc., in San Bernardino Forest Reserve.

Ass. Bill 37, Jury: To prevent the destruction of young forest trees.

Ass. Bill 100, Drew: Relating to evidence in actions for firing of woods.

Ass. Bill 101, Drew: Relating to the measure of damages for injuries to timber.

Ass. Bill 102, Drew: Relating to forest fires.

Ass. Bill 103, Drew: Authorizing county boards to appropriate money for forestry purposes.

Ass. Bill 105, Drew: Relating to malicious burning of forests.

Ass. Bill 106, Drew: Relating to the State Board of Forestry.

Ass. Bill 872, McClellan: To dispose of money received from U. S. Forest Reserves.

NOTE.—The name after the number of a bill in the above list refers to the member introducing the measure.

It has not been practicable to list the bills introduced before 1903.

The disposal made of each bill can be found by reference to the Final Calendar of Legislative Business for each session of the Legislature.

ANON. Arbor day bill, to be offered for adoption at the session of the legislature of 1887.

In: First Report California State Board of Forestry, p. 223, 1886.

GAGE, Henry T. Defense of the veto of Senate Bill No. 7.

In: Second Biennial Message of Governor, 1903, p. 9.

KELLY, Allen. Forest reservations.

In: Fourth Biennial Report California State Board of Forestry, pp. 20-22. 1892.

STATE BOARD OF FORESTRY, Memorial of, to Congress of the United States.

In: Third Biennial Report State Board of Forestry, pp. 67-71. 1890.

NATIONAL FORESTS (Forest Reserves).

For legislation relating to National Forests and Forestry by Federal authority in general, see U. S. Statutes at Large, one or two volumes annually. Much of this legislation is to be sought for in the annual appropriation acts for the Agricultural Department.

The boundaries of the National Forests may be learned from the proclamations of the President of United States, establishing or modifying them. These are first issued on quarto sheets, and afterwards printed in the annual volumes of the Statutes at Large. National Parks are created by acts of Congress. See Statutes at Large, and Compiled Statutes of United States. A convenient compilation of recent changes in boundaries will be found in Forestry and Irrigation for August, 1908.

Act regulating entry of agricultural lands within forest reserves. June 11, 1906. Statutes of 59th Congress, session 1, p. 233.

(Excludes Southern California.)

Correspondence and report on extending agricultural entry law to Southern California. 60th Congress, 1st session, Senate Report 533.

Statement of money received by Forest Service from National Forests, during fiscal year 1906-1907. Senate Document 437, 60 Cong. 1, Sess. 1908.

(For California table, see page 2.)



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FOREST LAND OFFICE, U. S. Department

Reserve Manual, for the information and use of forest officers.

Approved by the Secretary of the Interior April 12, 1908. 90 pp, 8°. Washington, Government Printing Office, 1902.

This book has been superseded by the "Use Book" of the Forest Service.

— Regulations governing entries within National Forests.

Dated, Washington, D. C., July 23, 1907. 8°, 7 pp.

FOREST SERVICE, U. S. The Use Book. Regulations and instructions for the use of the National Forests.

248 pp., 12°. Washington, Government Printing Office, 1907. (Issued July 1, 1907.)

This is the 2d revision of this book, superseding all former issues.

NOTE.—Many important data regarding the affairs of the National Forests may be found in the monthly "Field Program," published by the U. S. Forest Service. Debates in Congress regarding the forest policy of the government are fully reported in the Congressional Record.

— On the destruction of Wolves and Coyotes in California forest reserves.

NOTE.—See data in following publications of Biological Survey, U. S. Department of Agriculture, Circulars 55, March 13, 1907; 58, May 14, 1907; 63, April 20, 1908. Also: Bulletin 72, Forest Service, Wolves in Relation to Stock, Game, and the National Forest Reserves.

WELFARE EFFECTS.

ANON. Tri-counties Reforestation Committee.

(No title page.) Oblong, 12°, 16 pp., 6 pl. from original photographs taken in San Bernardino Forest Reserve, April 17, 1907.

Contains: Toumey, Jas. W. The influence of forests in regulating run-off. Reprint from Yearbook, U. S. Department of Agriculture, 1903.

PRENTICE, Wm. K. Deforestation in Syria and its effects. Reprint from Forestry and Irrigation, May, 1907.

Also: Observations by FRANCIS CUTTLE, chairman of the Tri-counties Reforestation Committee, list of membership, and statement of objects of organization.

LULL, G. B. Natural warfare and human welfare.

Bulletin Cal. Physical Geography Club. 1: No. 3, pp. 8-11, Jan. '08.

Author is State Forester of California. References to California local conditions.

MANSON, M. Comparison of water discharge on timbered and treeless areas along the Yuba River.

In: A reconnaissance on the Yuba River. Water Supply and Irrigation, paper 46, U. S. Geological Survey. (Serial 4137.)

TOUMEY, James W. The relation of forests to stream flow. Reprint from Yearbook of Department of Agriculture for 1903.

8°, pp. 279-288. The data were collected in the San Bernardino National Forest. Their substance is reprinted in report of State Forester, 1906, and with photographic plates in pamphlet of Tri-county Reforestation Committee, qu. v.

VISCHER, Hubert. The influence of redwood forests upon the flow of streams.

In: First Biennial Report California State Board of Forestry, pp. 202-205. 1886.

APPENDIX.

For the convenience of non-professional students, the titles of a few easily accessible popular books on forestry in general, although not referring specially to California, are herewith appended. The first two of these books treat the subject principally from the economic or sociological side, the others from the technical side.

BRUNCKEN, Ernest. North American Forests and Forestry.

FERNOW, B. E. Economics of Forestry.

GIFFORD, John. Practical Forestry.

GREEN, Samuel B. Principles of American Forestry.

PINCHOT, Gifford. A primer of forestry.

— The use of the National Forests.

ROTH, Filibert. A first book in forestry.

On the influence of forests on soil fertility, climate and the like, the best comprehensive work is still G. P. Marsh, *The earth as modified by human action* (in the earlier edition known as *Man and Nature*).

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